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L3 elong\$3 and L224 L3L2 (mous\$3 or murin\$2) and fatt\$3 and aci\$3 and polyunsaturat\$3675 L2

DB=USPT; PLUR=YES; OP=OR

L1 elongase.ti.2 L1

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 24 returned.****1. Document ID: US 20020138874 A1**

L3: Entry 1 of 24

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020138874  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020138874 A1

TITLE: Elongase genes and uses thereof

PUBLICATION-DATE: September 26, 2002

## INVENTOR INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mukerji, Pradip	Gahanna	OH	US	
Leonard, Amanda Eun-Yeong	Gahanna	OH	US	
Huang, Yung-Sheng	Upper Arlington	OH	US	
Pereira, Suzette L.	Westerville	OH	US	

US-CL-CURRENT: 800/281; 435/193, 435/320.1, 435/410, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
Image												

**2. Document ID: US 6492108 B1**

L3: Entry 2 of 24

File: USPT

Dec 10, 2002

US-PAT-NO: 6492108  
DOCUMENT-IDENTIFIER: US 6492108 B1

TITLE: Delta-6 desaturase homologs

DATE-ISSUED: December 10, 2002

## INVENTOR INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hillman; Jennifer L.	Mountain View	CA		
Guegler; Karl J.	Menlo Park	CA		
Corley; Neil C.	Mountain View	CA		
Shah; Purvi	Sunnyvale	CA		

US-CL-CURRENT: 435/6; 424/94.4, 435/189, 435/252.3, 435/320.1, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
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## └ 3. Document ID: US 6432684 B1

L3: Entry 3 of 24

File: USPT

Aug 13, 2002

US-PAT-NO: 6432684

DOCUMENT-IDENTIFIER: US 6432684 B1

TITLE: Human desaturase gene and uses thereof

DATE-ISSUED: August 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mukerji; Pradip	Gahanna	OH		
Leonard; Amanda Eun-Yeong	Gahanna	OH		
Huang; Yung-Sheng	Columbus	OH		
Das; Tapas	Worthington	OH		

US-CL-CURRENT: 435/136; 435/189, 435/252.3, 435/320.1, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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## └ 4. Document ID: US 6428990 B1

L3: Entry 4 of 24

File: USPT

Aug 6, 2002

US-PAT-NO: 6428990

DOCUMENT-IDENTIFIER: US 6428990 B1

TITLE: Human desaturase gene and uses thereof

DATE-ISSUED: August 6, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mukerji; Pradip	Gahanna	OH		
Leonard; Amanda Eun-Yeong	Gahanna	OH		
Huang; Yung-Sheng	Columbus	OH		
Parker-Barnes; Jennifer M.	New Albany	OH		

US-CL-CURRENT: 435/134; 435/135, 435/136, 435/189, 435/252.3, 435/320.1, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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## └ 5. Document ID: US 6410288 B1

L3: Entry 5 of 24

File: USPT

Jun 25, 2002

US-PAT-NO: 6410288

DOCUMENT-IDENTIFIER: US 6410288 B1

TITLE: Methods and compositions for synthesis of long chain poly-unsaturated fatty acids

DATE-ISSUED: June 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knutzon; Deborah	Granite Bay	CA		
Mukerji; Pradip	Gahanna	OH		
Huang; Yung-Sheng	Upper Arlington	OH		
Thurmond; Jennifer	Columbus	OH		
Chaudhary; Sunita	Westerville	OH		

US-CL-CURRENT: 435/189; 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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## └ 6. Document ID: US 6403349 B1

L3: Entry 6 of 24

File: USPT

Jun 11, 2002

US-PAT-NO: 6403349

DOCUMENT-IDENTIFIER: US 6403349 B1

TITLE: Elongase gene and uses thereof

DATE-ISSUED: June 11, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mukerji; Pradip	Gahanna	OH		
Leonard; Amanda Eun-Yeong	Gahanna	OH		
Huang; Yung-Sheng	Upper Arlington	OH		
Thurmond; Jennifer	Columbus	OH		
Kirchner; Stephen J.	Westerville	OH		

US-CL-CURRENT: 435/183; 435/252.3, 435/254.1, 435/320.1, 435/325, 536/23.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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## └ 7. Document ID: US 6323402 B1

L3: Entry 7 of 24

File: USPT

Nov 27, 2001

US-PAT-NO: 6323402

DOCUMENT-IDENTIFIER: US 6323402 B1

TITLE: Soybean variety 93B46

DATE-ISSUED: November 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Streit; Leon G.	Johnston	IA		

US-CL-CURRENT: 800/312; 435/415, 435/419, 435/421, 435/426, 435/430, 435/430.1, 435/468, 800/260, 800/265, 800/266, 800/267, 800/268, 800/278

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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## 8. Document ID: US 6255456 B1

L3: Entry 8 of 24

File: USPT

Jul 3, 2001

US-PAT-NO: 6255456

DOCUMENT-IDENTIFIER: US 6255456 B1

TITLE: Cyclic GMP phosphodiesterase

DATE-ISSUED: July 3, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fisher; Douglas A.	Groton	CT		
Gooding; Douglas H.	Redwood City	CA		
Streeter; David Gray	Boulder Creek	CA		

US-CL-CURRENT: 530/350; 435/7.9, 436/532, 436/547, 530/387.1, 530/387.9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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## 9. Document ID: US 6136574 A

L3: Entry 9 of 24

File: USPT

Oct 24, 2000

US-PAT-NO: 6136574

DOCUMENT-IDENTIFIER: US 6136574 A

TITLE: Methods and compositions for synthesis of long chain polyunsaturated fatty acids

DATE-ISSUED: October 24, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knutzon; Deborah	Granite Bay	CA		
Mukerji; Pradip	Gahanna	OH		
Huang; Yung-Sheng	Upper Arlington	OH		
Thurmond; Jennifer	Columbus	OH		
Chaudhary; Sunita	Pearland	TX		

US-CL-CURRENT: 435/134; 435/136

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 10. Document ID: US 6107334 A

L3: Entry 10 of 24

File: USPT

Aug 22, 2000

US-PAT-NO: 6107334

DOCUMENT-IDENTIFIER: US 6107334 A

TITLE: Dietary control of arachidonic acid metabolism

DATE-ISSUED: August 22, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chilton; Floyd H.	Pilot Mountain	NC		

US-CL-CURRENT: 514/464; 514/558, 514/560, 514/679, 514/825, 514/826, 514/863

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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L3: Entry 11 of 24

File: USPT

Aug 8, 2000

US-PAT-NO: 6100037

DOCUMENT-IDENTIFIER: US 6100037 A

TITLE: Human cyclic nucleotide PDEs

DATE-ISSUED: August 8, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Phillips; Stephen C.	Canterbury			GB
Lanfear; Jeremy	Ashford			GB
Fawcett; Lindsay	Canterbury			GB
Bandman; Olga	Mountain View	CA		

US-CL-CURRENT: 435/6; 435/196, 435/252.3, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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[KIMC](#) [Draw Desc](#)**12. Document ID: US 6080548 A**

L3: Entry 12 of 24

File: USPT

Jun 27, 2000

US-PAT-NO: 6080548

DOCUMENT-IDENTIFIER: US 6080548 A

TITLE: Cyclic nucleotide phosphodiesterases

DATE-ISSUED: June 27, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Au-Young; Janice	Berkeley	CA		
Cocks; Benjamin G.	Palo Alto	CA		
Coleman; Roger	Mountain View	CA		
Seilhamer; Jeffrey J.	Los Altos	CA		
Fisher; Douglas A.	Groton	CA		

US-CL-CURRENT: 435/7.1; 435/4, 530/300, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## └ 13. Document ID: US 6075183 A

L3: Entry 13 of 24

File: USPT

Jun 13, 2000

US-PAT-NO: 6075183

DOCUMENT-IDENTIFIER: US 6075183 A

TITLE: Methods and compositions for synthesis of long chain poly-unsaturated fatty acids in plants

DATE-ISSUED: June 13, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knutzon; Deborah	Granite Bay	CA		
Mukerji; Pradip	Gahanna	OH		
Huang; Yung-Sheng	Upper Arlington	OH		
Thurmond; Jennifer	Columbus	OH		
Chaudhary; Sunita	Pearland	TX		

US-CL-CURRENT: 800/281; 435/134, 435/252.3, 435/419, 435/430, 435/468, 435/471, 435/69.1, 536/23.2, 800/298

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## └ 14. Document ID: US 6051754 A

L3: Entry 14 of 24

File: USPT

Apr 18, 2000

US-PAT-NO: 6051754

DOCUMENT-IDENTIFIER: US 6051754 A

TITLE: Methods and compositions for synthesis of long chain poly-unsaturated fatty acids in plants

DATE-ISSUED: April 18, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knutzon; Deborah	Granite Bay	CA		

US-CL-CURRENT: 800/281; 435/252.3, 435/419, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## └ 15. Document ID: US 5968809 A



L3: Entry 15 of 24

File: USPT

Oct 19, 1999

US-PAT-NO: 5968809

DOCUMENT-IDENTIFIER: US 5968809 A

TITLE: Methods and compositions for synthesis of long chain poly-unsaturated fatty acids

DATE-ISSUED: October 19, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knutzon; Deborah	Granite Bay	CA		
Mukerji; Pradip	Gahanna	OH		
Huang; Yung-Sheng	Upper Arlington	OH		
Thurmond; Jennifer	Columbus	OH		
Chaudhary; Sunita	Westerville	OH		

US-CL-CURRENT: 435/254.2; 435/189, 435/254.21, 435/320.1, 435/325, 435/410, 536/23.1, 536/23.2, 536/23.7, 536/23.74, 536/24.32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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## 16. Document ID: US 5952544 A

L3: Entry 16 of 24

File: USPT

Sep 14, 1999

US-PAT-NO: 5952544

DOCUMENT-IDENTIFIER: US 5952544 A

TITLE: Fatty acid desaturase genes from plants

DATE-ISSUED: September 14, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Browse; John	Palouse	WA		
Grau; Luis Perez	Davis	CA		
Kinney; Anthony J.	Wilmington	DE		
Pierce, Jr.; John W.	Wilmington	DE		
Wierzbicki; Anna M.	Wilmington	DE		
Yadav; Narendra S.	Chadds Ford	PA		

US-CL-CURRENT: 800/295; 435/320.1, 435/419, 435/468, 435/69.1, 536/23.6, 800/281

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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## 17. Document ID: US 5932423 A

L3: Entry 17 of 24

File: USPT

Aug 3, 1999

US-PAT-NO: 5932423

DOCUMENT-IDENTIFIER: US 5932423 A

TITLE: Cyclic nucleotide phosphodiesterases

DATE-ISSUED: August 3, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Au-Young; Janice	Berkeley	CA		
Cocks; Benjamin G.	Palo Alto	CA		
Coleman; Roger	Mountain View	CA		
Seilhamer; Jeffrey J.	Los Altos Hills	CA		
Fisher; Douglas A.	Groton	CT		

US-CL-CURRENT: [435/6](#); [435/320.1](#), [435/325](#), [435/348](#), [435/69.1](#), [536/23.2](#), [536/23.5](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Full	Draw Desc
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## 18. Document ID: US 5922595 A

L3: Entry 18 of 24

File: USPT

Jul 13, 1999

US-PAT-NO: 5922595

DOCUMENT-IDENTIFIER: US 5922595 A

TITLE: Cyclic GMP phosphodiesterase

DATE-ISSUED: July 13, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fisher; Douglas A.	Groton	CT		
Gooding; Douglas H.	Redwood City	CA		
Streeter; David Gray	Boulder Creek	CA		

US-CL-CURRENT: [435/320.1](#); [435/6](#), [435/69.1](#), [530/350](#), [536/23.1](#), [536/23.5](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Full	Draw Desc
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## 19. Document ID: US 5798246 A

L3: Entry 19 of 24

File: USPT

Aug 25, 1998

US-PAT-NO: 5798246

DOCUMENT-IDENTIFIER: US 5798246 A

TITLE: Cyclic nucleotide phosphodiesterase

DATE-ISSUED: August 25, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Au-Young; Janice	Berkeley	CA		
Cocks; Benjamin Graeme	Palo Alto	CA		
Coleman; Roger	Mountain View	CA		
Seilhamer; Jeffrey J.	Los Altos Hills	CA		

US-CL-CURRENT: 435/196; 435/320.1, 435/325, 536/23.2, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Image	NAME	Draw Desc
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20. Document ID: US 5762935 A

L3: Entry 20 of 24

File: USPT

Jun 9, 1998

US-PAT-NO: 5762935

DOCUMENT-IDENTIFIER: US 5762935 A

TITLE: Anti-inflammatory and infection protective effects of sesamin-based lignans

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Forse; R. Armour	Brookline	MA		
Chavali; Sambasiva	Boston	MA		

US-CL-CURRENT: 424/776; 424/725, 514/469, 514/783, 514/885

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Image	NAME	Draw Desc
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L3: Entry 21 of 24

File: USPT

Jun 2, 1998

US-PAT-NO: 5760206

DOCUMENT-IDENTIFIER: US 5760206 A

TITLE: Nucleotide sequence of soybean stearoyl-ACP desaturase gene

DATE-ISSUED: June 2, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hitz; William D.	Wilmington	DE		
Yadav; Narendra S.	Wilmington	DE		
Perez-Grau; Luis	Wilmington	DE		

US-CL-CURRENT: 536/23.6; 435/69.1, 536/23.1, 536/23.2, 800/281

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
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[KIMC](#) [Draw Desc](#)**22. Document ID: US 5674853 A**

L3: Entry 22 of 24

File: USPT

Oct 7, 1997

US-PAT-NO: 5674853

DOCUMENT-IDENTIFIER: US 5674853 A

TITLE: Enternal formulations for treatment of inflammation and infection

DATE-ISSUED: October 7, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Forse; R. Armour	Brookline	MA		
Chavali; Sambasiva	Boston	MA		

US-CL-CURRENT: 514/25; 424/755, 424/764, 424/765, 424/776, 424/DIG.13, 514/464,  
514/468, 514/783, 514/825, 514/886, 514/887, 514/904, 514/905

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
<a href="#">Image</a>									

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## 23. Document ID: US 5443974 A

L3: Entry 23 of 24

File: USPT

Aug 22, 1995

US-PAT-NO: 5443974

DOCUMENT-IDENTIFIER: US 5443974 A

TITLE: Nucleotide sequence of soybean stearoyl-ACP desaturase gene

DATE-ISSUED: August 22, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hitz; William D.	Wilmington	DE		
Yadav; Narendra S.	Wilmington	DE		
Perez-Grau; Luis	Wilmington	DE		

US-CL-CURRENT: 800/264; 435/69.1, 435/69.2, 536/23.1, 536/23.6, 800/281

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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## 24. Document ID: US 5397778 A

L3: Entry 24 of 24

File: USPT

Mar 14, 1995

US-PAT-NO: 5397778

DOCUMENT-IDENTIFIER: US 5397778 A

TITLE: Enteral formulations for treatment of inflammation and infection

DATE-ISSUED: March 14, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Forse; R. Armour	Brookline	MA		
Chavali; Sambasiva	Boston	MA		

US-CL-CURRENT: 514/198; 424/755, 424/764, 424/765, 424/776, 424/DIG.13, 426/804, 426/810, 514/464, 514/468, 514/783, 514/825, 514/886, 514/887, 514/904, 514/905

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,  
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1 FILE FROSTI  
2 FILE GENBANK  
1 FILE IFIPAT  
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2 FILE WPINDEX  
1 FILE NLDB

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now available on STN  
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NEWS 34 Dec 02 TIBKAT will be removed from STN  
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=> index bioscience medicine

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67 FILES IN THE FILE LIST IN STNINDEX

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=> s elong? and (mous? or murin?) and fatt? and aci? and polyunsatu?

2 FILE AGRICOLA

1 FILE BIOBUSINESS

23 FILE BIOSIS

1 FILE BIOTECHABS

1 FILE BIOTECHDS

6 FILE BIOTECHNO

3 FILE CABA

3 FILE CANCERLIT

14 FILES SEARCHED...

7 FILE CAPLUS

15 FILE DGENE

26 FILES SEARCHED...

1 FILE DRUGU

26 FILE EMBASE

6 FILE ESBIODBASE

1 FILE FROSTI

38 FILES SEARCHED...

2 FILE GENBANK

1 FILE IFIPAT

1 FILE LIFESCI

10 FILE MEDLINE

49 FILES SEARCHED...

7 FILE PASCAL

3 FILE PROMT

22 FILE SCISEARCH

132 FILE USPATFULL

59 FILES SEARCHED...

2 FILE WPIDS

2 FILE WPINDEX

1 FILE NLDB

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L1 QUE ELONG? AND (MOUS? OR MURIN?) AND FATT? AND ACI? AND POLYUNSATU?

=> d rank



F1	132	USPATFULL
F2	26	EMBASE
F3	23	BIOSIS
F4	22	SCISEARCH
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F7	7	CAPLUS
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F9	6	BIOTECHNO
F10	6	ESBIOBASE
F11	3	CABA
F12	3	CANCERLIT
F13	3	PROMT
F14	2	AGRICOLA
F15	2	GENBANK
F16	2	WPIDS
F17	2	WPINDEX
F18	1	BIOBUSINESS
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F20	1	BIOTECHDS
F21	1	DRUGU
F22	1	FROSTI
F23	1	IFIPAT
F24	1	LIFESCI
F25	1	NLDB

=> file f1-f10

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=> s elong? and (mous? or murin?) and fatt? and aci? and polyunsatu?  
4 FILES SEARCHED...  
8 FILES SEARCHED...  
L2 254 ELONG? AND (MOUS? OR MURIN?) AND FATT? AND ACI? AND POLYUNSATU?

=> dup rem l2  
DUPLICATE IS NOT AVAILABLE IN 'DGENE'.  
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE  
PROCESSING COMPLETED FOR L2  
L3 191 DUP REM L2 (63 DUPLICATES REMOVED)

=> s l3 and (recombin? or clon? or isolat?)  
5 FILES SEARCHED...  
L4 149 L3 AND (RECOMBIN? OR CLON? OR ISOLAT?)

=> d ti l4 1-149

L4 ANSWER 1 OF 149 USPATFULL  
TI Compositions and methods for the treatment and diagnosis of cardiovascular disease using rchd534 as a target

L4 ANSWER 2 OF 149 USPATFULL  
TI Compositions and methods for treatment of neoplastic disease

L4 ANSWER 3 OF 149 USPATFULL  
TI COX 1-interacting proteins and use thereof

L4 ANSWER 4 OF 149 USPATFULL  
TI Compositions and methods for the treatment and diagnosis of cardiovascular disease

L4 ANSWER 5 OF 149 USPATFULL  
TI Compounds and methods for regulating cell differentiation

L4 ANSWER 6 OF 149 USPATFULL  
TI Polymorphic markers of the LSR gene

L4 ANSWER 7 OF 149 USPATFULL  
TI Gene identification

L4 ANSWER 8 OF 149 USPATFULL  
TI Modulation of endogenous gene expression in cells

L4 ANSWER 9 OF 149 USPATFULL  
TI Fad4, Fad5, Fad5-2 and Fad6, novel **fatty acid** desaturase family members and uses thereof

L4 ANSWER 10 OF 149 USPATFULL  
TI Agouti polynucleotide compositions and methods of use

L4 ANSWER 11 OF 149 USPATFULL  
TI Compositions and methods for the treatment and diagnosis of cardiovascular disease

L4 ANSWER 12 OF 149 USPATFULL  
TI **Elongase** genes and uses thereof

L4 ANSWER 13 OF 149 USPATFULL  
TI COMPOSITIONS AND METHODS FOR THE TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE

L4 ANSWER 14 OF 149 USPATFULL  
TI Human desaturase gene and uses thereof

L4 ANSWER 15 OF 149 USPATFULL  
 TI Polynucleotides encoding staphylococcal FAB I enoyl-ACP reductase

L4 ANSWER 16 OF 149 USPATFULL  
 TI Biallelic markers derived from genomic regions carrying genes involved in arachidonic **acid** metabolism

L4 ANSWER 17 OF 149 USPATFULL  
 TI Benzoxazole LPAAT-B inhibitors and uses thereof

L4 ANSWER 18 OF 149 USPATFULL  
 TI Human desaturase gene and uses thereof

L4 ANSWER 19 OF 149 USPATFULL  
 TI LPAAT-B inhibitors and uses thereof

L4 ANSWER 20 OF 149 USPATFULL  
 TI Compounds and methods for regulating cell differentiation

L4 ANSWER 21 OF 149 USPATFULL  
 TI Gene identification

L4 ANSWER 22 OF 149 USPATFULL  
 TI System and method of microdispensing and arrays of bilayers provided by same

L4 ANSWER 23 OF 149 USPATFULL  
 TI Methods and compositions for synthesis of long chain poly-unsaturated **fatty acids**

L4 ANSWER 24 OF 149 USPATFULL  
 TI **Elongase** gene and uses thereof

L4 ANSWER 25 OF 149 USPATFULL  
 TI Down-regulation of single genes and simultaneous down-regulation of multiple genes by nuclear localization of RNA transcripts

L4 ANSWER 26 OF 149 USPATFULL  
 TI Soybean variety 96B21

L4 ANSWER 27 OF 149 USPATFULL  
 TI Soybean variety 92B36

L4 ANSWER 28 OF 149 USPATFULL  
 TI Carboxylic **acids** and derivatives thereof and pharmaceutical compositions containing them

L4 ANSWER 29 OF 149 USPATFULL  
 TI Soybean variety 92B75

L4 ANSWER 30 OF 149 USPATFULL  
 TI Composition for and method of topical administration to effect changes in subcutaneous adipose tissue

L4 ANSWER 31 OF 149 USPATFULL  
 TI DocosahexAenoic **acid** as retinoid X-receptor ligand and uses thereof

L4 ANSWER 32 OF 149 USPATFULL  
 TI Soybean variety 92B62

L4 ANSWER 33 OF 149 USPATFULL  
 TI Compositions and methods for demonstrating secretory immune system regulation of steroid hormone responsive cancer cell growth

L4 ANSWER 34 OF 149 USPATFULL  
TI Soybean variety 93B26

L4 ANSWER 35 OF 149 USPATFULL  
TI Compositions and methods for the diagnosis, treatment and prevention of steroid hormone responsive cancers

L4 ANSWER 36 OF 149 USPATFULL  
TI Soybean variety 92B56

L4 ANSWER 37 OF 149 USPATFULL  
TI Soybean variety 93B53

L4 ANSWER 38 OF 149 USPATFULL  
TI Soybean variety 92B63

L4 ANSWER 39 OF 149 USPATFULL  
TI Soybean variety 93B46

L4 ANSWER 40 OF 149 USPATFULL  
TI Soybean variety 93B08

L4 ANSWER 41 OF 149 USPATFULL  
TI Soybean variety 97B62

L4 ANSWER 42 OF 149 USPATFULL  
TI Soybean variety 92B37

L4 ANSWER 43 OF 149 USPATFULL  
TI Soybean variety 95B95

L4 ANSWER 44 OF 149 USPATFULL  
TI Pyrimidine 3-oxide compounds for inducing/stimulating hair growth and/or retarding hair loss

L4 ANSWER 45 OF 149 USPATFULL  
TI Soybean variety 90A07

L4 ANSWER 46 OF 149 USPATFULL  
TI Compositions for preventing cellulite in mammalian skin

L4 ANSWER 47 OF 149 USPATFULL  
TI Soybean variety 90B73

L4 ANSWER 48 OF 149 USPATFULL  
TI Agouti polypeptide compositions

L4 ANSWER 49 OF 149 USPATFULL  
TI Soybean variety 93B66

L4 ANSWER 50 OF 149 USPATFULL  
TI Methods for microdispensing patterned layers

L4 ANSWER 51 OF 149 USPATFULL  
TI Sesamol inhibitor of delta-5-desaturase activity and uses therefor

L4 ANSWER 52 OF 149 USPATFULL  
TI Carboxylic **acids** and derivatives thereof and pharmaceutical compositions containing them

L4 ANSWER 53 OF 149 USPATFULL  
TI Pyrimidine 3-oxide compounds for inducing/stimulating hair growth and/or retarding hair loss

L4 ANSWER 54 OF 149 USPATFULL

TI Soybean variety 92B24

L4 ANSWER 55 OF 149 USPATFULL  
TI Soybean variety 94B53

L4 ANSWER 56 OF 149 USPATFULL  
TI Soybean variety 93B65

L4 ANSWER 57 OF 149 USPATFULL  
TI Soybean variety 95B32

L4 ANSWER 58 OF 149 USPATFULL  
TI Compositions and methods for the treatment and diagnosis of  
cardiovascular disease using rchd534 as a target

L4 ANSWER 59 OF 149 USPATFULL  
TI Methods for treating disorders in which docosaehxaenoic **acid**  
(DHA) levels are affected

L4 ANSWER 60 OF 149 USPATFULL  
TI Soybean variety 92B35

L4 ANSWER 61 OF 149 USPATFULL  
TI Soybean variety 94B45

L4 ANSWER 62 OF 149 USPATFULL  
TI Methods for the treatment and diagnosis of cardiovascular disease

L4 ANSWER 63 OF 149 USPATFULL  
TI Soybean variety 93B35

L4 ANSWER 64 OF 149 USPATFULL  
TI Soybean variety 95B53

L4 ANSWER 65 OF 149 USPATFULL  
TI Soybean variety 93B84

L4 ANSWER 66 OF 149 USPATFULL  
TI Soybean variety 93B07

L4 ANSWER 67 OF 149 USPATFULL  
TI Soybean variety 96B01

L4 ANSWER 68 OF 149 USPATFULL  
TI Soybean variety 94B22

L4 ANSWER 69 OF 149 USPATFULL  
TI Methods and compositions for synthesis of long chain  
**polyunsaturated fatty acids**

L4 ANSWER 70 OF 149 USPATFULL  
TI Soybean variety 92B71.

L4 ANSWER 71 OF 149 USPATFULL  
TI Soybean variety 92B74

L4 ANSWER 72 OF 149 USPATFULL  
TI Compositions and methods for treatment and diagnosis of cardiovascular  
disease

L4 ANSWER 73 OF 149 USPATFULL  
TI Soybean variety 92B23

L4 ANSWER 74 OF 149 USPATFULL  
TI Dietary control of arachidonic **acid** metabolism

L4 ANSWER 75 OF 149 USPATFULL  
TI Soybean variety 94B41

L4 ANSWER 76 OF 149 USPATFULL  
TI Methods and compositions for synthesis of long chain poly-unsaturated  
**fatty acids** in plants

L4 ANSWER 77 OF 149 USPATFULL  
TI Soybean variety 93B53

L4 ANSWER 78 OF 149 USPATFULL  
TI Compositions and methods for the treatment and diagnosis of  
cardiovascular disease using rchd534 as a target

L4 ANSWER 79 OF 149 USPATFULL  
TI Methods and compositions for synthesis of long chain poly-unsaturated  
**fatty acids** in plants

L4 ANSWER 80 OF 149 USPATFULL  
TI Soybean variety 90B43

L4 ANSWER 81 OF 149 USPATFULL  
TI Compositions and methods for the treatment and diagnosis of  
cardiovascular disease using rchd523 as a target

L4 ANSWER 82 OF 149 USPATFULL  
TI S-adenosyl methionine regulation of metabolic pathways and its use in  
diagnosis and therapy

L4 ANSWER 83 OF 149 USPATFULL  
TI Compositions and methods for the treatment and diagnosis of  
cardiovascular disease using rchd528 as a target

L4 ANSWER 84 OF 149 USPATFULL  
TI Soybean variety 92B21

L4 ANSWER 85 OF 149 USPATFULL  
TI Soybean variety 91B64

L4 ANSWER 86 OF 149 USPATFULL  
TI Soybean variety 95B33

L4 ANSWER 87 OF 149 USPATFULL  
TI Methods and compositions for synthesis of long chain poly-unsaturated  
**fatty acids**

L4 ANSWER 88 OF 149 USPATFULL  
TI Compositions and methods for the treatment and diagnosis of  
cardiovascular disease using rchd523 as a target

L4 ANSWER 89 OF 149 USPATFULL  
TI Soybean variety 95B41

L4 ANSWER 90 OF 149 USPATFULL  
TI Soybean variety 91B52

L4 ANSWER 91 OF 149 USPATFULL  
TI Soybean variety 90B21

L4 ANSWER 92 OF 149 USPATFULL  
TI **Fatty acid** desaturase genes from plants

L4 ANSWER 93 OF 149 USPATFULL  
TI Soybean variety 90B93

L4 ANSWER 94 OF 149 USPATFULL  
TI Soybean variety 93B01

L4 ANSWER 95 OF 149 USPATFULL  
TI Soybean variety 92B05

L4 ANSWER 96 OF 149 USPATFULL  
TI Soybean variety 91B02

L4 ANSWER 97 OF 149 USPATFULL  
TI Soybean variety 93B34

L4 ANSWER 98 OF 149 USPATFULL  
TI Soybean variety 94B01

L4 ANSWER 99 OF 149 USPATFULL  
TI Soybean variety 90B31

L4 ANSWER 100 OF 149 USPATFULL  
TI Soybean variety 91B91

L4 ANSWER 101 OF 149 USPATFULL  
TI Soybean variety 93B51

L4 ANSWER 102 OF 149 USPATFULL  
TI Soybean variety 94B81

L4 ANSWER 103 OF 149 USPATFULL  
TI Soybean variety 90B72

L4 ANSWER 104 OF 149 USPATFULL  
TI Soybean variety 93B25

L4 ANSWER 105 OF 149 USPATFULL  
TI Soybean variety 95B71

L4 ANSWER 106 OF 149 USPATFULL  
TI Soybean variety 93B45

L4 ANSWER 107 OF 149 USPATFULL  
TI Soybean variety 92B01

L4 ANSWER 108 OF 149 USPATFULL  
TI Soybean variety 92B51

L4 ANSWER 109 OF 149 USPATFULL  
TI Compositions and method for the treatment and diagnosis of  
cardiovascular disease using rchd502 as a target

L4 ANSWER 110 OF 149 USPATFULL  
TI Compositions and methods for the treatment and diagnosis of  
cardiovascular using RCHD528 as a target

L4 ANSWER 111 OF 149 USPATFULL  
TI Process for the manufacture of wholly microfabricated biosensors

L4 ANSWER 112 OF 149 USPATFULL  
TI Process for the manufacture of wholly microfabricated biosensors

L4 ANSWER 113 OF 149 USPATFULL  
TI Compositions and methods using rchd534, a gene uregulated by shear  
stress

L4 ANSWER 114 OF 149 USPATFULL

TI Modification of vegetable oils using desaturase

L4 ANSWER 115 OF 149 USPATFULL  
TI Neoplasia diagnostic method

L4 ANSWER 116 OF 149 USPATFULL  
TI Nucleotide sequence of soybean stearyl-ACP desaturase gene

L4 ANSWER 117 OF 149 USPATFULL  
TI Enteral formulations for treatment of inflammation and infection

L4 ANSWER 118 OF 149 USPATFULL  
TI Process for the manufacture of wholly microfabricated biosensors

L4 ANSWER 119 OF 149 USPATFULL  
TI Compositions for treating wrinkles comprising a peptide

L4 ANSWER 120 OF 149 USPATFULL  
TI Process for the manufacture of wholly microfabricated biosensors

L4 ANSWER 121 OF 149 USPATFULL  
TI Nucleotide sequence of soybean stearyl-ACP desaturase gene

L4 ANSWER 122 OF 149 USPATFULL  
TI Enteral formulations for treatment of inflammation and infection

L4 ANSWER 123 OF 149 USPATFULL  
TI Method of forming a permselective layer

L4 ANSWER 124 OF 149 USPATFULL  
TI Wholly microfabricated biosensors and process for the manufacture and use thereof

L4 ANSWER 125 OF 149 USPATFULL  
TI Essential **fatty acid** treatment

L4 ANSWER 126 OF 149 USPATFULL  
TI Method of manufacturing a plurality of uniform microfabricated sensing devices having an immobilized ligand receptor

L4 ANSWER 127 OF 149 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Identification and expression of mammalian long-chain PUFA **elongation** enzymes.

L4 ANSWER 128 OF 149 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Effects of n-3 **fatty acids** on growth and survival of J774 macrophages.

L4 ANSWER 129 OF 149 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Myogenic differentiation of the muscle **clonal** cell line BC3H-1 is accompanied by changes in its lipid composition.

L4 ANSWER 130 OF 149 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
TI Effects of n-3 and n-6 **fatty acids** on tumor necrosis factor cytotoxicity in WEHI fibrosarcoma cells.

L4 ANSWER 131 OF 149 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
TI **MOUSE** PERITONEAL MACROPHAGE PROSTAGLANDIN E-1 SYNTHESIS IS ALTERED BY DIETARY GAMMA-LINOLENIC **ACID**.

L4 ANSWER 132 OF 149 SCISEARCH COPYRIGHT 2002 ISI (R)  
TI Zellweger syndrome knockout **mouse** models challenge putative peroxisomal beta-oxidation involvement in docosaehexaenoic **acid** (22 : 6n-3) biosynthesis



- L4 ANSWER 133 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -
- L4 ANSWER 134 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -
- L4 ANSWER 135 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -
- L4 ANSWER 136 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acids** encoding **elongase** enzymes for producing **polyunsaturated fatty acids** that can be used to form nutritional compositions -
- L4 ANSWER 137 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acids** encoding **elongase** enzymes for producing **polyunsaturated fatty acids** that can be used to form nutritional compositions -
- L4 ANSWER 138 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acids** encoding **elongase** enzymes for producing **polyunsaturated fatty acids** that can be used to form nutritional compositions -
- L4 ANSWER 139 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acids** encoding **elongase** enzymes for producing **polyunsaturated fatty acids** that can be used to form nutritional compositions -
- L4 ANSWER 140 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acids** encoding **elongase** enzymes for producing **polyunsaturated fatty acids** that can be used to form nutritional compositions -
- L4 ANSWER 141 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI Novel **isolated** polypeptide comprising functional long chain **polyunsaturated fatty acid** (PUFA) **elongase** of *Caenorhabditis elegans* used to produce PUFA for foodstuff, dietary supplement or pharmaceutical composition
- L4 ANSWER 142 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -
- L4 ANSWER 143 OF 149 DGENE (C) 2002 THOMSON DERWENT  
TI **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -

L4 ANSWER 144 OF 149 DGENE (C) 2002 THOMSON DERWENT  
 TI **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -

L4 ANSWER 145 OF 149 DGENE (C) 2002 THOMSON DERWENT  
 TI **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -

L4 ANSWER 146 OF 149 DGENE (C) 2002 THOMSON DERWENT  
 TI **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -

L4 ANSWER 147 OF 149 DGENE (C) 2002 THOMSON DERWENT  
 TI **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -

L4 ANSWER 148 OF 149 CAPLUS COPYRIGHT 2002 ACS  
 TI Mammalian cells expressing desaturases and **elongases** for altered levels of long-chain **polyunsaturated fatty acid** levels

L4 ANSWER 149 OF 149 CAPLUS COPYRIGHT 2002 ACS  
 TI **Polyunsaturated fatty acid elongase** genes and their **cloning** and uses in production of commercial products

=> d l4 ibib abs 147 148 149

L4 ANSWER 147 OF 149 DGENE (C) 2002 THOMSON DERWENT  
 ACCESSION NUMBER: ABK46369 cDNA DGENE  
 TITLE: **Isolated nucleic acid** sequences encoding **elongase** proteins, useful in the production of **polyunsaturated fatty acids**, e.g. arachidonic acid, which can then be used nutritional compositions and pharmaceutical compositions (for treating AIDS) -

INVENTOR: Mukerji P; Das T; Huang Y; Parker-Barnes J M; Leonard A E; Thurmond J; Pereira S L

PATENT ASSIGNEE: (ABBO)ABBOTT LAB.

PATENT INFO: WO 2002008401 A2 20020131 271p

APPLICATION INFO: WO 2001-US23259 20010724

PRIORITY INFO: US 2000-624670 20000724

US 2001-903456 20010711

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2002-172011 [22]

AN ABK46369 cDNA DGENE

AB The invention relates to **isolated nucleic acid** sequences encoding **elongase** proteins and the **elongase** proteins themselves. Also included are a purified polypeptide which **elongates polyunsaturated fatty acids**

and has at least 30% amino acid similarity to the amino acid sequence to an **elongase** protein, a vector comprising the nucleic acid, a plant cell (or tissue or whole plant) comprising the vector and expressing the nucleic acid, a plant oil or acid expressed by the transgenic plant, and a transgenic non-human animal expressing **elongase** in its fluid. The nucleic acids and **elongase** proteins may be used directly or indirectly in the production of **polyunsaturated fatty acids** (pufa), for e.g. arachidonic acid, which can then be used nutritional compositions, pharmaceutical compositions, cosmetics and animal feeds. The pharmaceutical compositions may be used in the treatment of restenosis after angioplasty, AIDS (acquired immunodeficiency syndrome), multiple sclerosis, inflammatory skin diseases, osteoporosis, kidney or urinary tract stones, malignant cancer, cachexia associated with cancer, eczema, symptoms of inflammation, rheumatoid arthritis, asthma and psoriasis. They are also useful for inhibiting platelet aggregation, inducing vasodilation, reducing cholesterol, reducing or preventing gastrointestinal bleeding and side effects of non-steroidal anti-inflammatory drugs. The present sequence encodes an **elongase** of the invention.

L4 ANSWER 148 OF 149 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 2001:50926 CAPLUS  
 DOCUMENT NUMBER: 134:111245  
 TITLE: Mammalian cells expressing desaturases and **elongases** for altered levels of long-chain **polyunsaturated fatty acid** levels  
 INVENTOR(S): Kopchick, John Joseph; Kelder, Bruce  
 PATENT ASSIGNEE(S): Ohio University, USA  
 SOURCE: PCT Int. Appl., 92 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001004636	A1	20010118	WO 2000-US19011	20000711
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

PRIORITY APPLN. INFO.: US 1999-351525 A 19990712  
 AB The invention generally relates to synthesis of essential **fatty acids** and their derivs., long-chain polyunsatd. **fatty acids** (LC-PUFAs) and eicosanoids, in transfected cells and in transgenic animals. Cells are transfected with genes encoding a desaturase and/or **elongase** under conditions such that the transfected cells produce altered levels of long-chain polyunsatd. **fatty acids** relative to the untransfected cells. Thus, **mouse** L cell **clones** transfected with vectors for human .DELTA.5-desaturase and Mortierella alpina **elongase** contained significantly elevated levels of arachidonic and ecosapentaenoic acid compared to control L cells.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 149 OF 149 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 2000:161459 CAPLUS  
 DOCUMENT NUMBER: 132:218000  
 TITLE: **Polyunsaturated fatty acid elongase** genes and their **cloning** and uses in production of commercial products  
 INVENTOR(S): Mukerji, Pradip; Leonard, Amanda Eun-yeong; Huang,

Yung-sheng; Thurmond, Jennifer; Kirchner, Stephen J.;  
Parker-barnes, Jennifer M.; Das, Tapas  
PATENT ASSIGNEE(S): Abbott Laboratories, USA  
SOURCE: PCT Int. Appl., 210 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000012720	A2	20000309	WO 1999-US19715	19990830
WO 2000012720	A3	20000908		
W: AU, BR, CA, CN, CZ, HU, IL, JP, KR, MX, NO, NZ				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6403349	B1	20020611	US 1998-145828	19980902
CA 2341336	AA	20000309	CA 1999-2341336	19990830
AU 9956964	A1	20000321	AU 1999-56964	19990830
EP 1108039	A2	20010620	EP 1999-943978	19990830
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002523098	T2	20020730	JP 2000-567706	19990830
PRIORITY APPLN. INFO.:			US 1998-145828	A 19980902
			WO 1999-US19715	W 19990830

AB The subject invention relates to the identification of four genes involved in the **elongation** of polyunsatd. **acids** (i.e., "**elongases**") and to uses thereof. Two of these genes are also involved in the **elongation** of monounsatd. **fatty acids**. Thus, cDNA nucleotide and deduced amino acid sequences are provided for 2 **elongases** from *Mortierella alpina*, 1 **elongase** from human, and an **elongase** from *Caenorhabditis elegans*. In particular, the **elongases** are utilized in the conversion of .gamma.-linolenic acid (GLA) to dihomogamma.-linolenic acid (DGLA) and in the conversion of DGLA or 20:4n-3 to eicosapentaenoic acid (EPA). DGLA may be utilized in the prodn. of polyunsatd. **fatty acids**, such as arachidonic acid (AA), docosahexaenoic acid (DHA), EPA, adrenic acid, .omega.6-docosapentaenoic acid or .omega.3-docosapentaenoic acid which may be added to pharmaceutical compns., nutritional compns., animal feeds, as well as other products such as cosmetics.

=> d his

(FILE 'HOME' ENTERED AT 19:20:01 ON 11 DEC 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 19:20:12 ON 11 DEC 2002

SEA ELONG? AND (MOUS? OR MURIN?) AND FATT? AND ACI? AND POLYUNS

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2	FILE AGRICOLA
1	FILE BIOBUSINESS
23	FILE BIOSIS
1	FILE BIOTECHABS
1	FILE BIOTECHDS
6	FILE BIOTECHNO
3	FILE CABA
3	FILE CANCERLIT
7	FILE CAPLUS

15 FILE DGENE  
 1 FILE DRUGU  
 26 FILE EMBASE  
 6 FILE ESBIODASE  
 1 FILE FROSTI  
 2 FILE GENBANK  
 1 FILE IFIPAT  
 1 FILE LIFESCI  
 10 FILE MEDLINE  
 7 FILE PASCAL  
 3 FILE PROMT  
 22 FILE SCISEARCH  
 132 FILE USPATFULL  
 2 FILE WPIDS  
 2 FILE WPINDEX  
 1 FILE NLDB  
 L1 QUE ELONG? AND (MOUS? OR MURIN?) AND FATT? AND ACI? AND POLYUNS  
 -----

FILE 'USPATFULL, EMBASE, BIOSIS, SCISEARCH, DGENE, MEDLINE, CAPLUS,  
 PASCAL, BIOTECHNO, ESBIODASE' ENTERED AT 19:23:01 ON 11 DEC 2002  
 L2 254 S ELONG? AND (MOUS? OR MURIN?) AND FATT? AND ACI? AND POLYUNSAT  
 L3 191 DUP REM L2 (63 DUPLICATES REMOVED)  
 L4 149 S L3 AND (RECOMBIN? OR CLON? OR ISOLAT?)

=> log h		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	38.72	41.58
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.24	-1.24

SESSION WILL BE HELD FOR 60 MINUTES  
 STN INTERNATIONAL SESSION SUSPENDED AT 19:32:56 ON 11 DEC 2002